Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1.   (Currently Amended) A method of generating a scene description from a set of

words, comprising:

performing a linguistic analysis on the set of words to generate a structure

representative of [[the]] semantic relations of the set of words;

converting said structure to a set of description elements, wherein the description

elements are representative of objects to be depicted in a scene and relationships between

objects;

depicting a spatial relation by using at least one spatial tag of an associated one or

more of the objects;

assigning a set of depictors to each of the description element elements, wherein each

of the depictors comprise comprises:

a reference to an object to be modified,

parameters used in modifying the object, and

a procedure for the modification of the object; and

generating said scene description by execution of said procedures for the modification

of the objects.

2.   (Original) The method of claim 1, wherein the linguistic analysis includes tagging the

set of words with grammatical parts of speech.

3.   (Original) The method of claim 1, wherein the linguistic analysis includes parsing the

set of words into a parse tree structure representative of the structure of the set of words.

3

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

4.   (Original) The method of claim 1, wherein the structure representative of the

semantic relations of the set of words is a dependency structure, wherein the dependency

structure indicates words that a given word is dependent on and indicates the words that

depend on the given word.

5.   (Currently Amended) The method of claim 1, wherein each ~~of the~~ description

~~element~~ elements is classified as belonging to a respective description element type.

6.   (Currently Amended) The method of claim 5, wherein each of the description

element ~~type~~ types has an object to which the respective description element refers.

7.   (Currently Amended) The method of claim 1, wherein at least one ~~of the~~ description

~~element~~ elements is [[are]] modified to resolve conflicts between some of the description

elements.

8.   (Currently Amended) The method of claim 1, wherein at least one ~~of the~~ description

~~element~~ elements is modified to add constraints to at least some of the description elements.

9.   (Currently Amended) The method of claim 1, wherein at least one ~~of the~~ ~~depictor~~

depictors is modified to resolve conflicts between at least some of the depictors.

10.   (Currently Amended) The method of claim 1, wherein at least one ~~of the~~ ~~depictor~~

depictors is modified to add constraints to at least some of the depictors.

4

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

11.   (Currently Amended) A machine-readable medium having stored thereon a plurality

of executable instructions, the plurality of instructions comprising instructions to:

        perform a linguistic analysis on a set of words to generate a structure representative of

[[the]] semantic relations of the set of words;

        convert said structure to a set of description elements, wherein <u>the</u> description

elements are representative of objects to be depicted in a scene and relationships between

objects;

        assign a set of depictors to each <u>of the</u> description ~~element~~ <u>elements</u>, wherein <u>each of</u>

<u>the</u> depictors ~~comprise~~ <u>comprises</u>:

                a reference to an object to be modified,

                parameters used in modifying the object, and

                a procedure for the modification of the object;

        <u>identify at least one conflict between at least some of the depictors;</u>

        <u>modify at least one of the depictors to resolve the at least one conflict;</u> and

        generate a scene description by execution of said procedures for the modification of

the objects.

12.   (Original) The machine-readable medium of claim 11, wherein the linguistic analysis

includes tagging the set of words with grammatical parts of speech.

13.   (Original) The machine-readable medium of claim 11, wherein the linguistic analysis

includes parsing the set of words into a parse tree structure representative of the structure of

the set of words.

14.   (Original) The machine-readable medium of claim 11, wherein the structure

representative of the semantic relations of the set of words is a dependency structure, wherein

5

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

the dependency structure indicates words that a given word is dependent on and indicates the words that depend on the given word.

15.   (Currently Amended) The machine-readable medium of claim 11, wherein each of the description element elements is classified as belonging to a respective description element type.

16.   (Currently Amended) The machine-readable medium of claim 15, wherein each of the description element type types has [[an]] a respective object to which each of the description element elements refers.

17.   (Currently Amended) The machine-readable medium of claim 11, wherein at least one of the description element elements is modified to resolve conflicts between at least some of the description elements.

18.   (Currently Amended) The machine-readable medium of claim 11, wherein at least one of the description element elements is modified to add constraints to at least some of the description elements.

19.   (Canceled),

20.   (Currently Amended) The machine-readable medium of claim 11, wherein at least one of the depictors depictor is modified to add constraints to at least some of the depictors.

6

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

21.   (Currently Amended) A method of generating a low-level scene description from a

set of words, comprising:

tagging the set of words with parts of speech;

parsing said tagged set of words into a parse tree structure representative of [[the]] a

structure of the set of words;

converting said parse tree into a structure representative of the semantic relations of

the set of words;

converting said structure into a high-level scene description, wherein said high-level

scene description includes at least one description element;

assigning a set of depictors to each description element, wherein each of the depictors

~~comprise~~ comprises:

a reference to an object to be modified,

parameters used in modifying the object,

a procedure for the modification of the object;

identifying at least one conflict between at least some of the depictors;

modifying at least one of the depictors to resolve the at least one conflict and

generating said low-level scene description by execution of said procedures for the

modification of the objects.

22.   (Original) The method of claim 21, wherein the structure representative of the

semantic relations of the set of words is a dependency structure, wherein the dependency

structure indicates words that a given word is dependent on and indicates the words that

depend on the given word.

23.   (Currently Amended) The method of claim 21, wherein each of the description

~~element~~ elements is classified as belonging to a description element type.

7

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

24.   (Currently Amended) The method of claim 23, wherein each of the description

element type types has [[an]] a corresponding object to which ones of the description element

elements refers.

25.   (Currently Amended) The method of claim 21, wherein at least one of the description

element elements is modified to resolve conflicts between at least some of the description

elements.

26.   (Currently Amended) The method of claim 21, wherein at least one of the description

element elements is modified to add constraints to at least some of the description elements.

27.   (Canceled)

28.   (Currently Amended) The method of claim 21, wherein at least one depictor of the

depictors is modified to add constraints to at least some of the depictors.

29.   (Currently Amended) A machine-readable medium having stored thereon a plurality

of executable instructions, the plurality of instructions comprising instructions to:

        tag a set of words with parts of speech;

        parse said tagged set of words into a parse tree structure representative of [[the]] a

structure of the set of words;

        convert said parse tree into a structure representative of [[the]] semantic relations of

the set of words;

        convert said structure into a high-level scene description, wherein said high-level

scene description includes at least one description element;

8

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

assign a set of depictors to each of the at least one description element, wherein the

set of the depictors comprise comprises:

a reference to an object to be modified,

parameters used in modifying the object,

a procedure for the modification of the object;

modify at least one of the depictors to resolve at least one conflict between at least

some of the depictors; and

generate a scene description by execution of said procedures procedure for the

modification of the objects object.

30.   (Original) The machine-readable medium of claim 29, wherein the structure

representative of the semantic relations of the set of words is a dependency structure, wherein

the dependency structure indicates words that a given word is dependent on and indicates the

words that depend on the given word.

31.   (Currently Amended) The machine-readable medium of claim 29, wherein each of

the at least one description element is classified as belonging to a description element type.

32.   (Currently Amended) The machine-readable medium of claim 31, wherein the

description element type has an object to which the at least one description element refers.

33.   (Currently Amended) The machine-readable medium of claim 29, wherein one of the

at least one description element is modified to resolve conflicts between at least some of the

description elements.

9

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

34.   (Currently Amended) The machine-readable medium of claim 29, wherein <u>one of the</u>

at least one description element is modified to add constraints to <u>at least some of the</u>

description elements.

35.   (Canceled).

36.   (Currently Amended) The machine-readable medium of claim 29, wherein at least

one <u>of the depictors</u> ~~depictor~~ is modified to add constraints to <u>at least some of the</u> depictors.

37.   (Currently Amended) A method of generating a scene description from a set of

words, comprising:

    performing a linguistic analysis on the set of words to generate a structure

representative of [[the]] semantic relations of the set of words;

    converting said structure to a set of description elements, wherein <u>the</u> description

elements are representative of objects to be depicted in a scene and relationships between <u>the</u>

objects;

    <u>depicting a spatial relation by using at least one spatial tag of an associated one or</u>

<u>more of the objects;</u>

    assigning a set of constraints to each description element in said set of description

elements; and

    generating said scene description by solving said set of constraints for said set of

description elements.

38.   (New) The machine-readable medium of claim 11, wherein the plurality of

instructions further comprise instructions to:

    depict a spatial relation by using at least one spatial tag of an associated one or more

                                              10

Application/Control Number: 09/703,622   Docket No.: 2000-0302
Art Unit: 2654

of the objects.

39.   (New) The method of claim 21, further comprising:

depicting a spatial relation by using at least one spatial tag of an associated one or

more of the objects.

40.   (New) The machine-readable medium of claim 29, further comprising instructions to:

depict a spatial relation by using at least one spatial tag of an associated one or more

of the objects.

11